Extensions to Image Access Services (IAS) and Common Imagery Interoperability Profile (CIIP) for Geospatial Data

30 January 1997 **CIIF Working Group**

C.P. Green 610.347.0602 (Voice/fax) cpg.sci@mindspring.com

Topics

- Objectives and Scope
- Current Activities
- Approach for Geospatial Extensions
- Changes to IASS and CIIP—Initial Cut

Objectives and Scope

- Extend existing IAS and CIIP to include geospatial metadata and data types
 - Revise IAS to Geospatial & Imagery Access Services (GIAS)
 - Revise CIIP to GIAS Profile
- Utilize DAGS evolving baseline for geospatial data types and data model for geospatial metadata elements for catalog access
 - Incorporate metadata elements in GIAS Profile in interim
 - Extensions to CAF—changes to boolean query syntax
 - » addition of relation operators—intersect and within
 - » addition of support for spatial data types—polygon, point, rectangle, etc
- Identify and define extensions to IAS baseline and profile details
- Key Milestones (TBR) related to Geospatial Extensions
 - IAS and CIIP updates for geospatial access—1 April or sooner
 - Prototype Development—1 June (Clients and Servers)
 - Prototype Validation Tests—1 July; Location TBD
 - Spec Updates (V3.0) and CCB Approval—15 August
 - DAGS data model release as GFE to Library Contractors—1 October
 - DAGS release of V1.0 of NIMA Library Client —1 October '97

Current Activities

IAS/CIIP Prototyping underway—IAF and CAF

- Updated IASS and CIIP—7 Feb
- Validation Tests
 - » Validation Test Plan TEM—26 Feb
 - » Test Readiness Review—16 March
 - » Current Participants: IDEX II, LMC PIPS, RL's IE2000, CACI, ADL
 - » Unclassified and classified validation tests—April
- Update and CCB approval of IASS V2.0 and corresponding CIIP—1 June
- IDEX II Fielding—Sept '97

Working details for an IDEX II prototype implementation of updated P&NF

- IDEX/C has advised they can support in May/June period
- Separate series of validation tests
- Customer direction to proceed being worked

DAGS/C to have prototype implementation of CAF and possibly some of P&NF in April

- Prototype implementation of extended interface for geospatial
- Not participating in V1.1 IAS/CIIP prototyping

Video Metadata extensions

Plan still to be developed

Approach for Geospatial Extensions

- DMA Geospatial Dataset Metadata Model to be updated and replace SPIA
 - Details to be defined
- Our Strategy—Rely on DAGS development effort to define and refine data model and metadata elements to be supported
 - Expected to evolve over time
 - Current interface definition facilitates introduction of new metadata
 - » Impacts client/server implementations rather than interface definition
 - » Establish periodic milestones for geospatial metadata updates based on DAGS development plans
 - Incorporate metadata extensions in GIAS Profile until formal changes to Geospatial Dataset Metadata Model are processed
- Hold Core Team TEMs to solicit inputs, comments and recos for GIAS/Profile extensions to address geospatial data types
 - Draft of changes and validate development milestones
 - TEM with DAGS Program—mid Feb
 - Core Team TEM—early March
 - Minor changes anticipated to Access Services
 - Significant upgrade of Profile for geospatial metadata

Changes to IASS and CIIP—Initial Cut

- Define extensions to existing IAS services to support geospatial access services
- Expand metadata supported based on DAGS model and inputs
- Review and update profile details for users, security, customer info to include DAGS details
 - Queries and profiles
 - Ordering
- Others—TBD